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**CENTRAL INTELLIGENCE GROUP**  
**INTELLIGENCE REPORT**



25X1A2g

COUNTRY Austria

DATE: 25X1A6a

SUBJECT Vereinigte Oesterreichische Eisen- und Stahlwerke A.G. Linz

INFO.

DIST. 20 January 1947

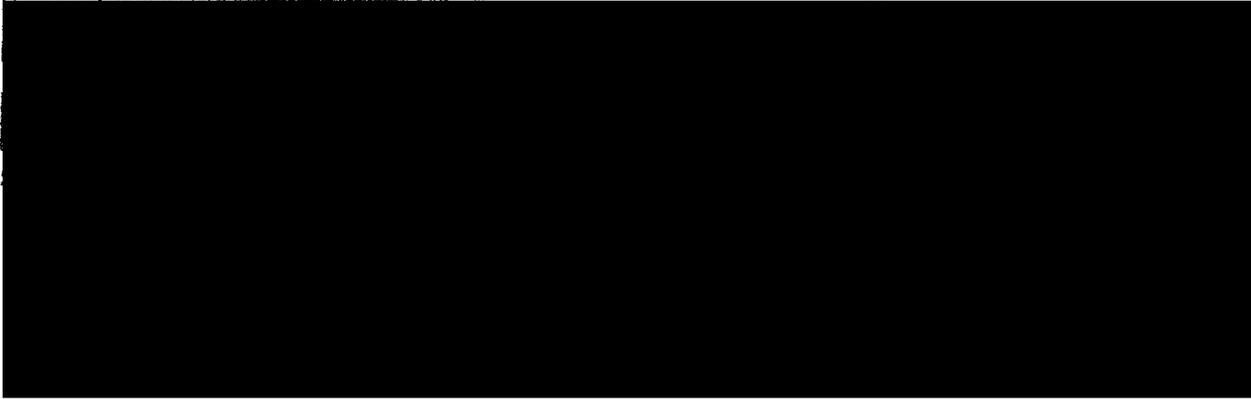
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SUPPLEMENT

ORIGIN 25X1A6a

~~25X1X6~~ EVALUATION OF SOURCE

EVALUATION OF CONTENT



1. The furnace hall has six blast furnaces with a daily capacity of 500 to 650 tons of raw iron each. The pig iron pouring machines can either convert the crude iron into iron bars for the market or produce liquid iron for processing in the steel mill. The fine ores for smelting, which come in the main from the Erzberg in Styria, are prepared in the sinter plant which is equipped with four sinter bands (Sinterbänder). There is also an installation consisting of six furnaces for ore in large pieces.
2. The necessary smelting coke is produced in the coke plant. This has eight batteries which heat forty furnaces each; furthermore, there is an installation combined with this plant where benzol is produced from coke gas. A particularly important side product is coke gas which, mixed with blast furnace gas, is used as fuel for the refining furnaces. It is also used for the production of nitrogenous fertilizer in the plant adjoining the Vereinigte Oesterreichische Eisen- und Stahlwerke A.G. At present, about 16,000 tons of nitrogen are produced. Comment: Probably annually). 25X1A6a
3. The steel and rolling mills were not enlarged according to the scale of the original plan. Areas which had been set aside for this purpose are still vacant. The premises of the former Eisenwerke Oberdonau are available for the installation of additional plants. Some of these premises are extremely well-suited for the purpose; others would have to be improved. A general plan has already been drawn up.
4. The steel mill at Linz contains a 200-ton Siemens-Martin furnace and four electric furnaces with a capacity of twenty to twenty-five tons. The blocks and slabs smelted in this plant are prewarmed in the soaking pit furnace and rolled into coarse and medium sheets. A fine sheet rolling mill is to be installed in an adjoining vacant shop and will be in operation in the first half of 1947. The furnaces for the annealing and tempering of these sheets are on hand. In addition, a plant is being erected for the production of seamless, rolled, welded, and cast pipes.

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5. In the assembly shops of the steel mill the sheets are converted into girders for bridges and tall structures. A machine plant manufactures machine tools, agricultural machinery, and mining equipment.
6. A large iron and steel foundry supplies the latter plant and foreign concerns. The foundry has two electric furnaces, two Bessemer converters, and two cupola furnaces. Iron and steel castings can be made here in a great variety of shapes and qualities. The forge contains hammers and presses which can produce forged and cast pieces up to a weight of 6,000 kg. per piece.
7. In addition to the various auxiliary concerns, such as a machine shop, an electric shop, a construction department, etc., there are also a large steam power plant and the hydraulic power plant under construction at Ternberg a.d. Enns. In the future, the steam power plant will have a capacity of 175,000 kw and the hydraulic power plant a capacity of 30,000 kw in the first phase. This will meet the requirements in electric current of the company, as well as part of the public requirement.
8. A slag processing plant, as well as the company's lime plant, is located in Pichl. From its blasting furnace slag, the first-named can produce various materials for road construction and building. The lime plant supplies the company with supplementary lime and also produces lime for fertilizer.

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Production Schedule of the Vereinigte Osterreichische Eisen-und Stahlwerke A.G. Linz (Donau)

Installations	Technical Data	Production	Capacity	Scheduled Production
Blast furnaces	800 - 1000 cu.m. content	steel pig, pig iron, hematite	550,000	360,000 tons
3 furnaces ready to operate	500-650 t/24 h crude iron	ferro-silicon-manganese and other special types of crude iron		
8 copper regenerators	100 t/h capacity			
2 pig casting machines	100,000 cu.m./h air			
7 steam turbogenerators	1.2-2.0 atmosphere gauge pressure			
1 steam turbo fan	4,500 kw capacity			
6 sectional steam boilers	6,200 V tension heated with blastfurnace gas and coke gas, 40 t/h steam (max.) 40 atmosphere gauge pressure, 425°C.			
slag processing		crushed slag in various granule sizes	180,000 tons	180,000 tons
crushing and sifting installation		sand for cement and artificial stone	60,000 tons	60,000 tons
scum installation		scum slag for the production of building material	60,000 tons	60,000 tons
<u>Preparation of ores</u>				
Dwight-Lloyd sinter bands	1000 t/24 h capacity	Sinter ore	720,000 tons	700,000 tons
2 Apold-Fleisener roasting furnaces	500 t/24 h capacity			

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Installations	Technical Data	Production	Capacity	Scheduled Productions
<u>Coke Plant</u>				
8 furnace batteries with 40 furnaces each; 3 in working order	13.9 tons of coal per furnace; 15-18 hrs fermentation period	blast furnace coke; broken coke; coke breeze	550,000 tons 100,000 tons 35,000 tons	420,000 tons 60,000 tons 30,000 tons
coke gas tank (not in working order)	capacity 250,000 cu. m.	coke gas for nitrogen production; city gas; gas for plant operation	250,000 cu. m.	200,000 cubic meters
supplementary exploitation	condensation, benzol purifier, tunnel furnace	tar	30,000 tons	18,000 tons
	refiner for preliminary product	ammonia liquor with 22% nitrogen; pure benzol; 90% pure commercial benzol	10,000 tons 8,000 tons	8,000 tons 6,000 tons
	7 distillation blowers, 50 t each 5 mixers	pure toluol; pure xylene refined benzol solvent; crude naphthalene		
<u>Steel Mill</u>				
1 S-M tipping furnace (in working order)	200 t load, 14.5 t/h capacity	commercial steels and low alloy building	120,000 tons	100,000 tons
3 Siemens electric furnaces (2 ready to operate)	4 t/h capacity; 6 MW (sic) smelting capacity; 25 t load	steel; tool steel and special steels of all alloy combinations	30,000 tons	100,000 tons
1 AEG electric furnace (not ready to operate)	4-5 t/h capacity; 9 MW (sic) smelting capacity; ingot weight to 4.5 tons; steel bloom weight to 10 tons			

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Installations	Technical Data	Production	Capacity	Scheduled Production
<u>Rolling Mill</u>				
1 quarto coarse steel rolling mill	2300 m bale lengths; rollers 9000 mm in diameter	coarse and medium steel sheets for boilers drums and steel construction, etc, 4-120 mm thick; 2350 mm wide.	120,000 tons	66,000 tons
4 soaking pit furnaces, heated with Dowson gas				
8 pre-warming pits	converted in part to oil heating			
4 annealing furnaces in blue print	fine sheet rolling mill; pipe rolling mill			30,000 tons 30,000 tons
<u>Foundry</u>				
ASG electric furnaces 2 converters	content 5 tons content 2 tons	steel castings for automobiles and machine parts with walls to 5 mm; wear-resistant castings for the cement industry, etc., weight of individual pieces from 0.5 kg to 4000kg.	3,600 tons	6,500 tons
2 cupola furnaces	capacity 5-6 t/h	grey casting for general machine construction, such as machine tool parts, presses, pumps, serving machines, agricultural machines, etc.	6,000 tons	4,200 tons
hand and machine molding molding cast cleaning shop;	18 core molding machines 6 hoses (Strahler) and 4 polishing machines			

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Installations	Technical Data	Product	Capacity	Scheduled Production
<u>Foundry (Cont'd)</u>				
9 annealing and drying furnaces mold carpentry shop and locksmith shop				
<u>Forges</u>				
21 various drop forging hammers		drop forge pieces for general machine and vehicle construction weight of pieces from 0.2 kg to 300 kg;	3,000 tons	3,000 tons
16 hammers and forge machines		semi-finished products; steel rods, forged pieces; axles, discs, etc; weight of pieces up to 300 kg; pressed sheet parts, wheel hubs, casing parts; boiler bottoms, vanes, etc., up to 2 m in diameter, or lengths up to 7 m.	1,800 tons	1,800 tons
warming and tempering furnaces			4,000 tons	4,000 tons
<u>Machine Construction</u>				
Departments I and II. 50 (in future 270) various machine tools; training shops; 100 machine tools		containers, machine tools, such as presses and agricultural machinery, pumps, rolling stock/repair; general heavy and light machinery; tools; wood-working machines; machinery for ship and the steel and iron industry	2,400 tons	2,400 tons

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Installations	Technical Data	Product	Capacity	Scheduled Production
<u>Steel Construction</u>				
4 halls and 1 machine hanger; 2 warehouses and assembly plants; 7 trains for outside assembly		all types of iron and steel construction for bridges, steel structures, light structures and containers	3,600 tons	3,600 tons
<u>Power Plant</u>				
5 main generators (3 ready to operate); (steam turbine with condenser)	32,000 kw capacity 10,000 V tension	electric power with a tension of 30,000 V; for overland supply, tension of 100,000 V	600,000 kwh	undetermined
2 generators for use in plant operations (not ready to operate); steam turbine with power collector and condenser	capacity 7,500 kw; tension 10,000 V			
8 vertical tube radiation boilers (5 ready to operate)	175,000 kw total capacity; heated with coal dust, coke gas, blast furnace gas	super-heater steam for generating power and for transmission over conveyor		
17 centrifugal pumps	13 to 57 m elevation; total capacity 71,000 cubic meters/h	water for operational use		

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